

Amendments to the Claims

1. (Canceled)

2. (Currently Amended) The CRT of claim 1,

A color CRT having a panel of which outer surface is substantially flat and inner surface has a predetermined curvature and a funnel coupled to a rear side of the panel,

wherein an aspect ratio of an effective surface of the panel is 4:3, a diagonal size (U) of the effective surface is 570mm ~ 700mm, and a following condition is satisfied:

$$-1.7168 * \ln(U) + 11.627 < (R_h * R_v * R_o / U) * T_c < -2.0131 * \ln(U) + 13.645,$$

wherein a value obtained by dividing an inner curvature radius R_x of the effective surface of the panel following a long axis (X) by a distance L_x of the effective surface of the panel following a 1.767*long axis is R_h , a value obtained by dividing an inner curvature radius R_y of the effective surface of the panel following a short axis (Y) by a distance L_y of the effective surface following a 1.767*short axis is R_v , a value obtained by dividing an inner curvature radius of the effective surface of the panel following a diagonal axis (D) by a distance L_d of the effective surface following 1.767*diagonal axis is R_o , and the thickness of the center point of the panel is T_c ;

wherein a following condition is satisfied: $10\text{mm} \leq T_c \leq 12.4\text{mm}$.

3. (Currently Amended) The CRT of claim 1,

A color CRT having a panel of which outer surface is substantially flat and inner surface has a predetermined curvature and a funnel coupled to a rear side of the panel,

wherein an aspect ratio of an effective surface of the panel is 4:3, a diagonal size (U) of the effective surface is 570mm ~ 700mm, and a following condition is satisfied:

$$-1.7168 * \ln(U) + 11.627 \leq (R_h * R_v * R_o / U) * T_c \leq -2.0131 * \ln(U) + 13.645,$$

wherein a value obtained by dividing an inner curvature radius R_x of the effective surface of the panel following a long axis (X) by a distance L_x of the effective surface of the panel following a 1.767*long axis is R_h , a value obtained by dividing an inner curvature radius R_y of the effective surface of the panel following a short axis (Y) by a distance L_y of the effective surface following a 1.767*short axis is R_v , a value obtained by dividing an inner curvature radius of the effective surface of the panel following a diagonal axis (D) by a distance L_d of the effective surface following 1.767*diagonal axis is R_o , and the thickness of the center point of the panel is T_c ;

wherein a following condition is satisfied: $0.0875 * \ln(U) - 0.4192 \leq OAH/U \leq 0.0981 * \ln(U) - 0.4753$, and a tube axis directional distance from the center of the outer surface of the panel to a seal edge line is OAH .

4. (Previously Presented) A color CRT having a panel of which outer surface is substantially flat and inner surface has a predetermined curvature and a funnel coupled to a rear side of the panel,

wherein an aspect ratio of an effective surface of the panel is 16:9, a diagonal size (U) of the effective surface is 650mm ~ 760mm, a following condition is satisfied: $-2.1319 \cdot \ln(U) + 14.589 \leq (R_h \cdot R_v \cdot R_o) / U \cdot T_c \leq -2.5462 \cdot \ln(U) + 17.414$,

wherein a value obtained by dividing an inner curvature radius Rx of the effective surface of the panel following a long axis (X) by a distance Lx of the effective surface of the panel following a 1.767*long axis is Rh, a value obtained by dividing an inner curvature radius Ry of the effective surface of the panel following a short axis (Y) by a distance Ly of the effective surface following a 1.767*short axis is Rv, a value obtained by dividing an inner curvature radius of the effective surface of the panel following a diagonal axis (D) by a distance Ld of the effective surface following 1.767*diagonal axis is Ro, and the thickness of the center point of the panel is Tc.

5. (Original) The CRT of claim 4, wherein a following condition is satisfied: $11 \text{ mm} \leq T_c \leq 13.4 \text{ mm}$.

6. (Original) The CRT of claim 4, wherein a following condition is satisfied:

$-0.0567 \cdot \ln(U) + 0.5119 \leq OAH/U \leq -0.0485 \cdot \ln(U) + 0.4711$, and a tube axis directional distance from the center of the outer surface of the panel to a seal edge line is OAH.

7. (Previously Presented) A color CRT having a panel of which outer surface is substantially flat and inner surface has a predetermined curvature and a funnel coupled to a rear side of the panel,

wherein an aspect ratio of an effective surface of the panel is 4:3, a diagonal size (U) of the effective surface is 400mm ~ 500mm, and a following condition is satisfied:

$$-0.8629 \cdot \ln(U) + 5.6754 \leq (Rh \cdot Rv \cdot Ro) / U \cdot Tc \leq -1.0547 \cdot \ln(U) + 6.9366,$$

wherein a value obtained by dividing an inner curvature radius Rx of the effective surface of the panel following a long axis (X) by a distance Lx of the effective surface of the panel following a 1.767*long axis is Rh, a value obtained by dividing an inner curvature radius Ry of the effective surface of the panel following a short axis (Y) by a distance Ly of the effective surface following a 1.767*short axis is Rv, a value obtained by dividing an inner curvature radius of the effective surface of the panel following a diagonal axis (D) by a distance Ld of the effective surface following 1.767*diagonal axis is Ro, and the

thickness of the center point of the panel is Tc.

8. (Original) The CRT of claim 7, wherein a following condition is satisfied: $9\text{mm} \leq Tc \leq 11.5\text{mm}$.

9. (Original) The CRT of claim 7, wherein a following condition is satisfied: $0.096*\ln(U)-0.4322 \leq OAH/U \leq 0.1052*\ln(U)-0.4778$, and a tube axis directional distance from the center of the outer surface of the panel to a seal edge line is OAH.

10. (Currently Amended) A color CRT having a panel of which outer surface is substantially flat and inner surface has a predetermined curvature and a funnel coupled to a rear side of the panel,

wherein the center transmittance of an effective surface of the panel is 45% ~ 75%, a diagonal size (U) of the effective surface is 650mm ~ 700mm, and a following condition is satisfied:

$$-17.746 \cdot \ln(U) + 116.49 \leq (R_h \cdot R_v \cdot R_o) / U \cdot T_c \leq -20.322 \cdot \ln(U) + 133.45,$$

wherein a value obtained by dividing an inner curvature radius Rx of the effective surface of the panel following a long axis (X) by a distance Lx of the effective surface of the panel following a 1.767*long axis is Rh, a value obtained by dividing an inner curvature radius Ry of the effective surface of the panel following a short axis (Y) by a distance Ly of the effective surface following a 1.767*short axis is Rv, a value obtained by dividing an inner curvature radius of the effective surface of the panel following a diagonal axis (D) by a distance Ld of the effective surface following 1.767*diagonal axis is Ro, and the thickness of the center point of the panel is Tc.

11. (Original) The CRT of claim 10, wherein the thickness at the edge portion of the panel is equal to or smaller than 25mm.

12. (Original) The CRT of claim 10, wherein a following condition is satisfied: $10\text{mm} \leq T_c \leq 13.4\text{mm}$.